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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/556,453	11/10/2005	Chee Ee Lee	NL 030594	3780
24737 7590 05/15/2007 PHILIPS INTELLECTUAL PROPERTY & STANDARDS P.O. BOX 3001			EXAMINER	
			AUVE, GLENN ALLEN	
BRIARCLIFF MANOR, NY 10510			ART UNIT	PAPER NUMBER
		- m	2111	
			MAIL DATE	DELIVERY MODE
			05/15/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

1) Responsive to communication(s) filed on		•	Application No.	Applicant(s)				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address   Period for Reply	Office Action Summary		10/556,453	LEE ET AL.				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Extensions for time may be welled under the provided under the			Examiner	Art Unit				
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WHICHEVER IS LONGER FROM THE MAILING DATE OF THIS COMMUNICATION.  Edensions of time rays be willed used the provision of 3° CFR 1.18(a). In ne overs, however, may a rayly be timely fitted after SIX (8) MCNTRS from the mailing date of this communication.  Failur to right with the set or extended sented recywork. We obtain the provision of the communication of the	Period fo		ppears on the cover sheet with the	correspondence address				
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2a)  This action is FINAL. 2b) This action is non-final.  3)  Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) Claim(s) 1-12 is/are pending in the application. 4a) Of the above claim(s)    is/are withdrawn from consideration.  5)  Claim(s)    is/are allowed. 6)  Claim(s)    is/are objected to. 8)  Claim(s)    is/are objected to. 8)  Claim(s)    is/are objected to. 8)  Claim(s)    are subject to restriction and/or election requirement.  Application Papers  9)  The specification is objected to by the Examiner.  10)  The drawing(s) filed on 10 November 2005 is/are: a)  accepted or b)  objected to by the Examiner.  Application may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11)  The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12)  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a)  All b)  Some * c)  None of:	Status							
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Art Unit: 2111

#### **DETAILED ACTION**

#### Specification

1. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

First of all, it is not entirely clear what applicant intends for the title to be. Some of the papers filed in the case refer to the title as "Host Controller" while the PCT application and U.S. Pregrant Publication application are listed as "Ubs host controller with DMA capability". Applicant should clarify the title. It is also noted that "Ubs" should be "USB".

## Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the second paragraph of 35 U.S.C. 112:
  - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 1-12 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 1 and 7 are rejected it is not clear how the DMA controller receives the starting address and block length "sent from the host controller" since the DMA controller is a part of the host controller.

Claims 2-6 and 8-10 are rejected because they depend on claims 1 and 7.

Claim 6 is also rejected based on lack of positive antecedent basis of "it" on line 2. This could refer to either the DMA controller or the processor.

Claims 11 and 12 are also rejected based on lack of positive antecedent basis of "it".

This could refer to either the DMA controller or the processor.

Art Unit: 2111

## Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 5. Claims 1,2,6,7,11, and 12 are rejected under 35 U.S.C. 102(e) as being anticipated by Nozaki, U.S. Pat. App. Pub. No. 2002/0178310 A1.

As per claim 1, Nozaki shows an embedded host controller, for use in a USB system comprising a processor (101) and an associated system memory (201), the host controller comprising: a DMA controller (104), the host controller being adapted such that, in order to retrieve data from the associated system memory, a starting address and block length are sent to the DMA controller, and the DMA controller being adapted such that, on receipt of a starting address and block length sent from the host controller, it retrieves the indicated data from the associated system memory (paragraphs [0049-0053]). Nozaki shows all of the elements recited in claim 1.

As for claim 2, the argument for claim 1 applies. Nozaki also shows that the DMA controller is adapted to send a bus request to the processor, and to retrieve data from the associated system memory only when bus access has been granted (paragraphs [0049-0053]). Nozaki shows all of the elements recited in claim 2.

As for claim 6, the argument for claim 1 applies. Nozaki also shows that the DMA controller is adapted to send a signal to the processor while it is retrieving data from the associated system memory, thereby preventing the processor from simultaneously attempting to

Art Unit: 2111

access the associated system memory (paragraphs [0049-0053]). Nozaki shows all of the elements recited in claim 6.

As per claim 7, Nozaki shows a USB host, comprising: a processor (101), wherein the processor is adapted to grant bus access (paragraphs [0049-0053]); a system memory (21), to which the processor writes USB data; and a host controller, the host controller comprising: a DMA controller (104), and the host controller being adapted such that, in order to retrieve data from the system memory, a starting address and block length are sent to the DMA controller, and the DMA controller being adapted such that, on receipt of a starting address and block length sent from the host controller, it sends a bus request to the processor, and retrieves data from the system memory only when bus access has been granted (paragraphs [0049-0053]). Nozaki shows all of the elements recited in claim 7.

As per claim 11, Nozaki shows a USB host, comprising: a processor (101); a system memory (21); a sub-system memory (108), to which the processor writes USB data; and a host controller, the host controller comprising: a DMA controller (104), and the host controller being adapted such that, in order to retrieve data from the sub-system memory, a starting address and block length are sent to the DMA controller, and the DMA controller being adapted such that, on receipt of a starting address and block length sent from the host controller, it retrieves the indicated data from the sub-system memory, the DMA controller being further adapted to send a signal to the processor while it is retrieving data from the sub-system memory, thereby preventing the processor from simultaneously attempting to access the sub-system memory (paragraphs [0049-0053]). Nozaki shows all of the elements recited in claim 11.

As for claim 12, the argument for claim 11 applies. Nozaki also shows that the DMA controller is adapted to send a signal to the processor while it is retrieving data from the associated system memory, thereby preventing the processor from simultaneously attempting to

Art Unit: 2111

access the associated system memory (paragraphs [0049-0053]). Nozaki shows all of the elements recited in claim 12.

# Allowable Subject Matter

- 6. Claims 3-5 and 8-10 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 7. The following is a statement of reasons for the indication of allowable subject matter: the prior art does not appear to show the timing limitations recited in claims 3-5 and 8-10.

#### Conclusion

- 8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The other cited references show DMA or USB systems.
- 9. Applicant is reminded of the duty to disclose to the Office all information known to the person to be material to patentability as defined in 37 CFR 1.56.
- 10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Glenn A. Auve whose telephone number is (571) 272-3623. The examiner can normally be reached on M-F 8:00 AM-5:30 PM, every other Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Rinehart can be reached on (571) 272-3632. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2111

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Glenn A. Auve Primary Examiner Art Unit 2111

gaa 11 May 2007